

**Commonwealth of Kentucky  
Division for Air Quality**

**PERMIT APPLICATION SUMMARY FORM**

Completed by: Ben Markin

GENERAL INFORMATION:

Name:	Kentucky State Reformatory.
Address:	3001 West Highway 146, LaGrange, Kentucky 40032
Date application received:	October 03, 2001
SIC/Source description:	Construction/Operation of Indirect Heat Exchangers
AFS #:	21-185-00012
Application log number:	54193
Permit number:	V-02-002

APPLICATION TYPE/PERMIT ACTIVITY:

<input checked="" type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__Administrative	<input checked="" type="checkbox"/> Title V
__Minor	<input checked="" type="checkbox"/> Synthetic minor
__Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input checked="" type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052,1(14)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☐ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☒ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

**EMISSIONS SUMMARY:**

Pollutant	Actual (tpy)	Potential (tpy)
PM	11.04	19.98
PM10	10.91	10.95
SO <sub>2</sub>	1.61	8.92
NO <sub>x</sub>	144.83	150.11
CO	117.16	119.5
VOC	13.87	16.81
HAPs	1.97	2.95

**SOURCE PROCESS DESCRIPTION:**

A construction/operating permit application was received from Kentucky State Reformatory on October 03, 2001 and was considered complete on November 20, 2001. The applicant proposes to construct/operate two natural-gas fired indirect heat exchangers with backup #2 fuel oil rated at 70 mm BTU/hr each, operate three existing permitted boilers and disconnect one that has been out of service for more than a year at their source in LaGrange, Kentucky. The source is taking self-imposed limits to preclude the applicability of Prevention of Significant Deterioration (PSD)[Regulation 401 KAR 51:017] review.

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**EMISSION AND OPERATING CAPS DESCRIPTION:**

Source-wide usage of #2 fuel oil for all boilers and diesel generators shall not equal or exceed 231,845 gallons per year. Allowable hours of operation for each boiler using #2 fuel oil shall not exceed 96 hours and 52 hours for each generator per each consecutive twelve (12) month rolling total. .

**OPERATIONAL FLEXIBILITY:**

None